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APPLICATION NO	Э.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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		NOLOGIES, INC.	SALMON, KATHERINE D		
	INTELLECTUAL PROPERTY ADMINISTRATION, LEGAL DEPT. P.O. BOX 7599				PAPER NUMBER
M/S DL42	-		1634		
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/698,195	LEPROUST ET AL.				
Office Action Summary	Examiner	Art Unit				
	Katherine Salmon	1634				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address -				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 O	<u>ctober 2003</u> .					
2a) This action is FINAL . 2b) ☑ This	☐ This action is FINAL . 2b) ☑ This action is non-final.					
·= ··	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-23 are subject to restriction and/or example. 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:					

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-10, 13-15, and 22 drawn to a method of identifying a sequence of a nucleic acid for use as a substrate surface immobilized probe, classified in class 536, subclass 25.3 and in class 435, subclass 6, respectively.
 - II. Claim 11-12, drawn to a computer readable medium, classified in class702, subclass 19.
 - III. Claim 16, drawn to a nucleic acid array, classified in class 435, subclass 287.2.
 - IV. Claims 17-20, drawn to a method of detecting the presence of a nucleic acid analyte in a sample, classified in class, subclass.
 - V. Claim 21, drawn to kit comprising an algorithm and instructions for use, classified in class 707, subclass 3.
 - VI. Claim 23, drawn to a method of identifying a sequence of a polymeric ligand comprising evaluating a plurality of candidate probe sequences, classified in class 435, subclass 7.1

The inventions are distinct, each from the other because of the following reasons:

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- 2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case Invention I is drawn to a method of identifying a sequence of a nucleic acid for use as a substrate surface immobilized probe and a method of producing a nucleic acid array with substrate surface immobilized probes and Invention II is drawn to a computer readable medium. The two inventions share a common component wherein the product of the method of Invention I can be used with the product of Invention II. Beyond this commonality, however, Inventions I and II are distinct from one another because they have different modes of operation, different functions, and different effects. For example, a computer readable medium could contain many different data sets besides the ones produced by the method of Invention I.
- 3. Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be made by the method of identifying a sequence of substrate surface immobilize probes and producing an array or it could be made with a method to produce an array using fragments from known substrate surface immobilized genes.

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- 4. Inventions I and IV are distinct methods. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions share a common step where they both are methods involving substrate surface immobilized probes. Beyond this commonality, however, the methods are distinct from one another because they have different goals and would require different additional process steps, reagents, and analyses for their completion.
- 5. Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a method of identifying a sequence of a nucleic acid for use as a substrate surface immobilized probe and a kit comprised of an algorithm and instructions for use. The two inventions share a common component wherein both the product and method are drawn to identifying a substrate surface immobilized probe. Beyond this commonality, however, Inventions I and IV are distinct form one another because they have different modes of operation, different functions, and different effects. For example an algorithm could be used to determine many different types of probes besides the ones produced by the method of Invention I.

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6. Inventions I and VI are drawn to distinct methods. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions share a common step where they both are methods involving substrate surface immobilized probes. Beyond this commonality, however, the methods are distinct from one another because they have different goals and would require different additional process steps, reagents, and analyses for their completion.

- 7. Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a computer readable medium and a nucleic acid array. There is no indication that the product of an array is used with the computer medium and therefore there is no relationship between the two inventions.
- 8. Inventions II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case Invention II is drawn to a computer readable medium whereas Invention IV is drawn to a method of detecting the presence of a nucleic acid analyte in a sample. There is no indication that the computer readable medium and the kit comprising an

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algorithm are used together and therefore there is no relationship between the two inventions.

- 9. Inventions II and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a computer readable medium and a kit comprised of an algorithm and instructions for use. There is no indication that the kit is used with the computer medium and therefore there is no relationship between the two inventions.
- 10. Inventions II and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a computer readable medium and a method of identifying a sequence of a polymeric ligand. There is no indication that the computer readable medium is used in the method of identifying a sequence of a polymeric ligand and therefore there is no relationship between the two inventions.
- 11. Inventions III and IV are related as product and process of using. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the

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product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be used in a method to detect the presence of a nucleic acid analyte or it could be used in a gene expression study. The search for each invention presents a serious burden, as the searches for each are not coextensive in scope. Art relating to the methods of detecting an nucleic acid would not necessarily provide description information on the array itself, and vice versa.

- 12. Inventions III and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to an array and a kit comprised of an algorithm and instructions for use. There is no indication that the kit is used with the array and therefore there is no relationship between the two inventions.
- 13. Inventions III and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a nucleic acid array and a method of identifying a sequence of a polymeric ligand. There is no indication that the nucleic acid array is used in the method of identifying a sequence of a polymeric ligand and therefore there is no relationship between the two inventions.

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14. Inventions IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a method of detecting the presence of a nucleic acid and a kit comprised of an algorithm and instructions for use. There is no indication that the method of detection uses the kit comprised of an algorithm and therefore there is no relationship between the two inventions.

- 15. Inventions IV and VI are distinct methods. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions share a common step where they both are methods involving substrate surface immobilized probes. Beyond this commonality, however, the methods are distinct from one another because they have different goals and would require different additional process steps, reagents, and analyses for their completion.
- 16. Inventions V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are drawn to a method of identifying a sequence of a polymeric ligand and a kit comprised of an algorithm and instructions for use.

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There is no indication that the method of identifying a sequence of a polymeric ligand uses the kit comprised of an algorithm and therefore there is no relationship between the two inventions.

17. The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re

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Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

- 18. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter and because Inventions I-V require different searches that are not coextensive, examination of these claims would pose a serious burden on the examiner and therefore restrictions for examination purposes as indicated is proper.
- 19. A telephone call was made to Bret Field on 2/03/2006 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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20. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

21. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Katherine Salmon whose telephone number is (571)

272-3316. The examiner can normally be reached on Monday -Friday 8AM-430PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gary Jones can be reached on (571) 272-0745. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kathene Solmon 2/3/2006

Katherine Salmon

Examiner

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Jehanne Sith

JEHANNE SITTON
PRIMARY EXAMINER

3 2/6/06